

OIPE

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/897,778

DATE: 07/20/2001  
 TIME: 14:08:00

Input Set : A:\455c16.app.txt  
 Output Set: N:\CRF3\07202001\I897778.raw

**ENTERED**  
*see page 5*

4 <110> APPLICANT: Wang, Tongtong  
 5 Marnerakis, Margarita  
 6 Fanger, Gary R.  
 7 Vedvick, Thomas S.  
 8 Carter, Darrick  
 9 Watanabe, Yoshihiro  
 10 Henderson, Robert A.  
 11 Peckham, David W.  
 12 Fanger, Neil  
 16 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 17 AND DIAGNOSIS OF LUNG CANCER  
 20 <130> FILE REFERENCE: 210121.455C16  
 C--> 22 <140> CURRENT APPLICATION NUMBER: US/09/897,778  
 23 <141> CURRENT FILING DATE: 2001-06-28  
 25 <160> NUMBER OF SEQ ID NOS: 467  
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 315  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Homo sapiens  
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 35 <221> NAME/KEY: misc\_feature  
 36 <222> LOCATION: 236, 241  
 37 <223> OTHER INFORMATION: n = A,T,C or G  
 39 <400> SEQUENCE: 1  
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 41 cagctgccgt gagactcccg atgtcacagg cagtctgtgt gggtacagcg cccctcagtg 120  
 42 ttcattctcca gcagagacaa cggaggaggc tcccaccagg acggttctca ttatttatat 180  
 W--> 43 gttaatatgt ttgtaaactc atgtacagtt tttttgggg gggaagcaat gggaanggta 240  
 W--> 44 naaattacaa atagaatcat ttgctgtaat ccttaaatgg caaacggtca ggccacgtga 300  
 45 aaaaaaaaaa aaaaaa 315  
 47 <210> SEQ ID NO: 2  
 48 <211> LENGTH: 380  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Homo sapiens  
 52 <400> SEQUENCE: 2  
 53 atttaggctt aagattttgt ttacccttgt tactaaggag caaattagta ttaaagtata 60  
 54 atatatataa acaaatataa aaagttttga gtggttcagc ttttttatit tttttaatgg 120  
 55 cataactttt acaaacactg ctctgtaatg ggttgaactg tggtagctag actgagataa 180  
 56 ctgaaatgag tggatgtata gtgttattgc ataattatcc cactatgaag caaagggact 240  
 57 ggataaattc ccagtcctaga ttattagcct ttgttaacca tcaagcacct agaagaagaa 300  
 58 ttattggaaa ttttgtcctc tgtaactggc actttggggg gtgacttatc ttttgccctt 360  
 59 gtaaaaaaaaaa aaaaaaaaaa 380  
 61 <210> SEQ ID NO: 3  
 62 <211> LENGTH: 346  
 63 <212> TYPE: DNA  
 64 <213> ORGANISM: Homo sapiens

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66 <220> FEATURE:
67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: 316, 317, 318, 322, 323, 326, 329, 330, 331, 336, 337, 339,
69     340, 342, 343
70 <223> OTHER INFORMATION: n = A,T,C or G
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73 ttgtaagtat acaatttttag aaaggattaa atgttattga tcattttact gaatactgca 60
74 caccctcacc atacaccatc cactttccaa taacatttaa tcctttctaa aattgtaagt 120
75 atacaattgt actttctttg gattttcata acaaataac catagactgt taattttatt 180
76 gaagtttcct taatggaatg agtcattttt gtcttggtct ttgagggtta ctttgcttt 240
77 gacttccaac aatttgatca tatagtgttg agctgtggaa atctttaagt ttattctata 300
W--> 78 gcaataattt ctattttnnag annccnggnn naaaannann annaaa 346
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 372
82 <212> TYPE: DNA
83 <213> ORGANISM: Homo sapiens
85 <220> FEATURE:
86 <221> NAME/KEY: misc_feature
87 <222> LOCATION: 297, 306, 332
88 <223> OTHER INFORMATION: n = A,T,C or G
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92 tggtttggtt tggttttttg aactgggatg taggggtggtt cacagttcta atgtaagcac 120
93 tctcttctcc aagttgtgct ttgtggggac aatcattctt tgaacattag agaggaaggc 180
94 agttcaagct gttgaaaaga ctattgctta tttttgtttt taaagacctt cttgacgtca 240
W--> 95 tgtggacagt gcacgtgcct tacgctacat cttgttttct aggaagaagg ggatgcnngg 300
W--> 96 aaggantggg tgcttttgta tggataaaac gntaaataa cacaccttta cattttgaaa 360
97 aaaacaaaac aa 372
99 <210> SEQ ID NO: 5
100 <211> LENGTH: 698
101 <212> TYPE: DNA
102 <213> ORGANISM: Homo sapiens
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <222> LOCATION: 8, 345, 422, 430, 433, 436, 438, 472, 481, 486, 515, 521,
107     536, 549, 553, 556, 557, 559, 568, 593, 597, 605, 611, 613,
108     616, 618, 620, 628, 630, 632, 634, 635, 639, 643, 647, 648,
109     649, 652, 654, 658, 664, 690
110 <223> OTHER INFORMATION: n = A,T,C or G
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114 cctaaccag gtttaactgca agaagaggcg ggatactttc agctttccat gtaactgtat 120
115 gcataaagcc aatgtagtcc agttttctaag atcatgttcc aagctaactg aatcccactt 180
116 caatacacac tcatgaactc ctgatggaac aataacaggc ccaagcctgt ggtatgatgt 240
117 gcacacttgc tagactcaga aaaaatacta ctctcataaa tgggtgggag tattttgggt 300
W--> 118 gacaacctac tttgcttggc tgagtgaagg aatgatattc atatnttcat ttattccatg 360
119 gacatttagt tagtgctttt tatataccag gcatgatgct gagtgacact cttgtgtata 420
W--> 120 tntccaaatn ttngtncngt cgctgcacat atctgaaac ctatattaag antttccaa 480
W--> 121 natgangtcc ctggttttcc cagccactt gatcngtcaa ngatctcacc tctgtntgtc 540

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W--> 122 ctaaacacnt ctnctnang gttagacngg acctctcttc tcccttcccg aanaatnaag 600
W--> 123 tgtgngaaga nancncncn cccccctncn tncnccctng ccngctnnnc cncntgtngg 660
W--> 124 gggngccgcc cccgcggggg gaccccccn ttttcccc 698
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127 <211> LENGTH: 740
128 <212> TYPE: DNA
129 <213> ORGANISM: Homo sapiens
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: 82, 406, 426, 434, 462, 536, 551, 558, 563, 567, 582, 584,
134 592, 638, 651, 660, 664, 673, 675, 697, 706, 711, 715, 716,
135 717, 723, 724, 725, 733
136 <223> OTHER INFORMATION: n = A,T,C or G
138 <400> SEQUENCE: 6
139 actagtcaaa aatgctaaaa taatttgga gaaaatattt ttttaagtagt gttatagttt 60
W--> 140 catgtttatc ttttattatg tnttgtgaag ttgtgtcttt tcactaatta cctatactat 120
141 gccaatattt ccttatatct atccataaca ttatactac atttgtaaga gaatatgcac 180
142 gtgaaactta acactttata aggtaaaaat gaggtttcca agatttaata atctgatcaa 240
143 gttcttggtta ttccaaaata gaatggactt ggtctgttaa ggggctaagg gagaagaaga 300
144 agataagggtt aaaagttgtt aatgacaaa cattctaaaa gaaatgcaa aaaaaattta 360
W--> 145 ttttcaagcc ttcgaactat ttaaggaaag caaaatcatt tcctanatgc atatcatttg 420
W--> 146 tgagantttc tcantaatat cctgaatcat tcatttcagc tnaggcttca tgttgatcg 480
W--> 147 atatgtcatc tagggaaagt ctatttcag gtccaaacct gttgcatag ttggttaggc 540
W--> 148 tttcctttaa ntgtgaanta ttnacangaa attttctctt tnanagttct tnataggggt 600
W--> 149 aggggtgtgg gaaaagcttc taacaatctg tagtgttncg tgttatctgt ncagaaccan 660
W--> 150 aatgacggat cgnangaagg actgggtcta tttacangaa cgaatnatct ngttnnntgt 720
W--> 151 gtnnncaact ccngggagcc 740
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 670
155 <212> TYPE: DNA
156 <213> ORGANISM: Homo sapiens
158 <220> FEATURE:
159 <221> NAME/KEY: misc_feature
160 <222> LOCATION: 265, 268, 457, 470, 485, 546, 553, 566, 590, 596, 613, 624,
161 639, 653, 659, 661
162 <223> OTHER INFORMATION: n = A,T,C or G
164 <400> SEQUENCE: 7
165 gctggggagc tcggcatggc ggtccccgct gcagccatgg ggcctcggc gttgggccag 60
166 agcggccccg gctcgatggc cccgtggtgc tcagtgaaga gcggccccgc gcgctacgtg 120
167 cttgggatgc aggagctgtt ccggggccac agcaagaccg cgagttctcg gcgcacagcg 180
168 ccaaggtgca ctcggtggcc tggagtggcg acgggcgtcg cctacctcgg ggtcttcgac 240
W--> 169 aagacgccac gtcttcttgc tgganaanga ccgttgggtca aagaaaacaa ttatcgggga 300
170 catggggata gtgtggacca ctttgttggc atccaagtaa tcctgacctt tttgttacgg 360
171 cgtctggaga taaaaccatt cgcactctgg atgtgaggac tacaaaatgc attgccactg 420
W--> 172 tgaacactaa aggggagaaac attaatatct gctggantcc tgatgggcan accattgtcg 480
W--> 173 tagcnacaag gatgatgtgg tgactttatt gatgccaaga aaccccgttc caaagcaaaa 540
W--> 174 aaacanttcc aanttcgaag tcacchaaat ctcttggaag aatgaacatn aatatnttct 600
W--> 175 tcttgacaat ggccttggg tgtntecat cctcagctnc cccaaaactg aancctgtnc 660
W--> 176 natccaccce 670

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178 <210> SEQ ID NO: 8
179 <211> LENGTH: 689
180 <212> TYPE: DNA
181 <213> ORGANISM: Homo sapiens
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <222> LOCATION: 253, 335, 410, 428, 448, 458, 466, 479, 480, 482, 483, 485,
186      488, 491, 492, 495, 499, 500, 502, 503, 512, 516, 524, 525,
187      526, 527, 530, 540, 546, 550, 581, 593, 594, 601, 606, 609,
188      610, 620, 621, 622, 628, 641, 646, 656, 673
189 <223> OTHER INFORMATION: n = A,T,C or G
191 <400> SEQUENCE: 8
192 actagtatct aggaatgaac agtaaaagag gagcagttgg ctacttgatt acaacagagt 60
193 aaatgaagta ctggatttgg gaaaacctgg ttttattaga acatatggaa tgaaagccta 120
194 cacctagcat tgcctactta gcccctgaa ttaacagagc ccaattgaga caaaccctcg 180
195 gcaacaggaa attcaaggga gaaaaagtaa gcaacttggg ctaggatgag ctgactccct 240
W--> 196 tagagcaaag ganagacagc cccattacc aaataccatt ttgctctggg gcttgtgcag 300
W--> 197 ctggcagtggt tcctgccccg gcatggcacc ttatngtttt gatagcaact tcgttgaatt 360
W--> 198 ttcaccaact tattacttga aattataaja tagcctgtgc gtttgcgtgt tccaggctgt 420
W--> 199 gatatatntt cctagtgttt tgacttttaa aataaainag gtttannttt cteccccenn 480
W--> 200 cnnctnctcc nntcnctcnn cnnctcccc cncctngtcc tccnnnttnn gggggggccn 540
W--> 201 cccccnegg ggacccccct tgggtccgtt agtggagggt natgggcctt ggnnttatcc 600
W--> 202 nggcctatnn ttccccgtt nnaaatgntt cccctccca ntcccnccac ctcaanccgg 660
W--> 203 aagcctaagt ttntaccctg ggggtcccc 689
205 <210> SEQ ID NO: 9
206 <211> LENGTH: 674
207 <212> TYPE: DNA
208 <213> ORGANISM: Homo sapiens
210 <220> FEATURE:
211 <221> NAME/KEY: misc_feature
212 <222> LOCATION: 602, 632, 639, 668
213 <223> OTHER INFORMATION: n = A,T,C or G
215 <400> SEQUENCE: 9
216 gtccactctc ctttgagtgt actgtcttac tgtgcactct gtttttcaac tttctagata 60
217 taaaaaatgc ttgttctata gtggagtaag agctcacaca cccaaggcag caagataact 120
218 gaaaaaagcg aggccttttt gccaccttgg taaaggccag ttcactgcta tagaactgct 180
219 ataagcctga agggaagtag ctatgagact ttccattttt cttagtcttc ccaataggct 240
220 ccttcatgga aaaaggcttc ctgtaataat ttccacctaa tgaattagca gtgtgattat 300
221 ttctgaaata agagacaaat tgggcccag agtcttctct tgatttaaaa taaacaaccc 360
222 aaagttttgt ttggtcttca ccaaaggaca tactctaggg ggtatgttgt tgaagacatt 420
223 caaaaacatt agctgttctg tctttcaatt tcaagttatt ttggagactg cctccatgtg 480
224 agttaattac ttgtctctgg aactagcatt attgtcatta tcatcacatt ctgtcatcat 540
225 catctgaata atattgtgga tttccccctc tgggttgcac ttcttttgac tcctctggga 600
W--> 226 anaaatgtca aaaaaaagg tcgatctact cngcaaggnc catctaata ctgcgctgga 660
W--> 227 aggaccnct gcc 674
229 <210> SEQ ID NO: 10
230 <211> LENGTH: 346
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens

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234 <220> FEATURE:
235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: 320, 321, 322, 325, 326, 328, 329, 330, 332, 333, 334, 335,
237      342
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243 ccttaagtgt ttctgtcatt gttcaagtgt attttctgta acagaaacat atttggaaatg 180
244 tttttctttt ccccttataa attgtaattc ctgaaatact gctgctttaa aaagtccac 240
245 tgtcagatta tattatctaa caattgaata ttgtaaatat agttgtctta cctctcaata 300
W--> 246 aaaggtact tttctattan nnagngnnnn gnnnnataaa anaaaa 346
248 <210> SEQ ID NO: 11
249 <211> LENGTH: 602
250 <212> TYPE: DNA
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 11
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255 gatgttaagc tttttgaaaa gttaggta aacctactgt tgtagatta atgtatttgt 120
256 tgcctccctt tatctggaat gtggcattag cttttttatt ttaaccctct ttaattctta 180
257 ttcaattcca tgacttaagg ttggagagct aaacactggg atttttggat aacagactga 240
258 cagttttgca taattataat cggcattgta catagaaagg atatggctac cttttgttaa 300
259 atctgcactt tctaaatata aaaaaaggga aatgaagtta taaatcaatt ttgtataat 360
260 ctgtttgaaa catgagtttt atttgcttaa tattagggct ttgccctttt tctgtaagtc 420
261 tcttgggatt ctgtgtagaa ctgttctcat taaacaccaa acagtttaagt ccattctctg 480
262 gtactagcta caaattcggg ttcatattct acttaacaat taaataaac tgaaatattt 540
263 ctagatggtc tactttctgt catataaaaa caaaacttga tttccaaaaa aaaaaaaaaa 600
264 aa 602
266 <210> SEQ ID NO: 12
267 <211> LENGTH: 685
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapiens
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <222> LOCATION: 170, 279, 318, 321, 322, 422, 450, 453, 459, 467, 468, 470,
274      473, 475, 482, 485, 486, 491, 498, 503, 506, 509, 522, 526,
275      527, 528, 538, 542, 544, 551, 567, 568, 569, 574, 576, 582,
276      587, 588, 589, 590, 592, 593, 598, 599, 603, 605, 608
277 <223> OTHER INFORMATION: n = A,T,C or G
279 <221> NAME/KEY: misc_feature
280 <222> LOCATION: 633, 634, 635, 644, 646, 648, 651, 655, 660, 662, 663, 672,
281      674, 675, 682, 683
282 <223> OTHER INFORMATION: n = A,T,C or G
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286 attatcatgg tattgatgga cctaagaaaa taaaatttag actaagcccc caaataagct 120
W--> 287 gcatgcattt gtaacatgat tagtagattt gaatatatag atgtagtata ttgggtatct 180
288 aggtgtttta tcattatgta aaggaattaa agtaaaggag ttgtagttg tttttattaa 240
W--> 289 atatgcatat agtagagtgc aaaaatatag caaaaatana aactaaaggt agaaaagcat 300

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 Use of n and / or Xaa has been detected in the  
 Sequence Listing. Review the Sequence Listing  
 to ensure a corresponding explanation is present  
 in the <220> to <223> fields of each sequence  
 using n or Xaa.

## VERIFICATION SUMMARY

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L:22 M:270 C: Current Application Number differs, Wrong Format  
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

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L:320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14